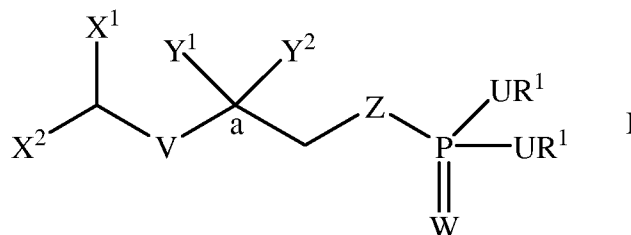


LISTING OF CLAIMS

What is claimed is:

1. (Currently Amended) A compound having the formula I



wherein

X^1 , X^2 , Y^1 , and Y^2 comprises, independently, hydrogen, fluorine, a hydroxyl group, a branched or straight chain C_1 to C_{25} alkyl group, OR^2 , ~~$OCH_2CH_2OR^2$~~ , $OC(O)R^3$, or $NC(O)R^3$;

each U comprises, independently, oxygen, sulfur, or NR^1 ;

V is not present or when V is present, V comprises oxygen or sulfur;

W comprises oxygen or sulfur;

Z comprises oxygen, sulfur, NR^1 , CHF, CF_2 , or $CHOR^2$;

each R^1 comprises, independently, hydrogen, a branched or straight chain C_1 to C_{25} alkyl group, a cationic counterion, or both R^1 form a cyclic or heterocyclic group;

R^2 comprises hydrogen, a branched or straight chain C_1 to C_{25} alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group or a protecting group;

R^3 comprises a branched or straight chain C_1 to C_{25} alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group,

or a pharmaceutically acceptable salt or ester thereof,

wherein when Y^1 and Y^2 are different groups, the stereochemistry at carbon a is either substantially R or substantially S, and

wherein the compound having the formula I is not 1-acyl-*sn*-glycerol 3-phosphate and 2-acyl-*sn*-glycerol 3-phosphate, and

wherein when V is not present, W is oxygen, X¹ and Y¹ are hydrogen, and X² is hydroxyl, then Y² is not hydroxyl.

2. (Original) The compound of claim 1, wherein each U and W comprises oxygen and V is not present.
3. (Withdrawn) The compound of claim 2, wherein Z comprises oxygen, X¹ comprises hydrogen, and X² comprises fluorine.
4. (Withdrawn) The compound of claim 3, wherein Y¹ comprises hydrogen, Y² comprises OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and R¹ comprises hydrogen.
5. (Canceled)
6. (Withdrawn) The compound of claim 2, wherein Z comprises oxygen, Y¹ comprises hydrogen, and Y² comprises fluorine.
7. (Withdrawn) The compound of claim 6, wherein X¹ comprises hydrogen, X² comprises OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ comprises hydrogen.
8. (Original) The compound of claim 2, wherein Z comprises CHF, Y¹ comprises hydrogen, and Y² comprises a hydroxyl group.
9. (Withdrawn) The compound of claim 8, wherein X¹ comprises hydrogen, X² comprises OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ is hydrogen.
10. (Canceled)
11. (Withdrawn) The compound of claim 8, wherein X¹ comprises hydrogen, X² is OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ comprises ethyl.
12. (Canceled)

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13. (Withdrawn) The compound of claim 2, wherein Z comprises CHF, Y¹ comprises hydrogen, and Y² comprises an alkyl group.
14. (Withdrawn) The compound of claim 13, wherein X¹ comprises hydrogen, X² comprises a silyl group, a hydroxyl group, or OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ comprises ethyl or each R¹ comprises hydrogen.
15. (Withdrawn) The compound of claim 2, wherein Z comprises CHF, Y¹ comprises hydrogen, and Y² comprises an OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group.
16. (Canceled)
17. (Withdrawn) The compound of claim 2, wherein Z comprises CF₂.
18. (Withdrawn) The compound of claim 17, wherein Y¹ comprises hydrogen, Y² comprises OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ comprises an ethyl group or a sodium ion.
19. (Withdrawn) The compound of claim 18, wherein X¹ comprises hydrogen and X² comprises OH or OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group.
20. (Withdrawn) The compound of claim 17, wherein X¹ comprises hydrogen, X² is OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ comprises an ethyl group or a sodium ion.
21. (Withdrawn) The compound of claim 20, wherein Y¹ comprises hydrogen and Y² comprises OH or OC(O)R³, wherein R³ comprises a branched or straight chain C₁ to C₂₅ alkyl group.

Claims 22-72 Cancelled

73. (Withdrawn-previously presented) A method for improving wound healing in a subject in need of such improvement, comprising contacting the wound of a mammal with a compound of claim 1.

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- 74. (Withdrawn-previously presented) A method for treating or preventing in a subject a disease comprising administering to the subject a compound of claim 1.
- 75. (Withdrawn) The method of claim 74, wherein the disease comprises cancer or diabetes.
- 76. (Canceled)
- 77. (Withdrawn-previously presented) A method for reducing inflammation or an allergic response in a subject comprising administering to the subject a compound of claim 1.
- 78. (Withdrawn-previously presented) A method for increasing or altering cardiovascular function in a subject comprising administering to the subject a compound of claim 1.
- 79. (Withdrawn-previously presented) A method for maintaining or terminating embryonic development in a subject comprising administering to the subject a compound of claim 1.
- 80. (Withdrawn-previously presented) A method for eliciting or inhibiting platelet aggregation in a subject comprising administering to the subject a compound of claim 1.
- 81. (Withdrawn-previously presented) A method for increasing or inhibiting cell growth and proliferation in a culture comprising contacting the cells in the culture with a compound of claim 1.
- 82. (Withdrawn-previously presented) A method of treating or preventing a disease in a subject comprising administering a compound of claim 1 thereof as a PPAR γ agonist.
- 83. (Withdrawn-previously presented) A method of treating or preventing a disease in a subject comprising administering a compound of claim 1 to inhibit a lipid phosphatase, lipid kinase, or phospholipase enzyme.
- 84. (Withdrawn-previously presented) The use of a compound of claim 1 for targeting the discovery of a drug.

- 85. (Withdrawn-previously presented) A method for growing or proliferating cells in a culture comprising administering to the cells in the culture a compound of claim 1.
- 86. (Withdrawn-previously presented) A method for determining the activity of lysophosphatidic acid or phosphatidic acid, comprising the steps of:
 - a) measuring the activity of a compound of claim 1; and
 - b) measuring the same activity of lysophosphatidic acid or phosphatidic acid.
- 87. (Withdrawn) The method of claim 86, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the edg class in a cell.
- 88. (Withdrawn) The method of claim 86, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the non-edg class in a cell.